

PA-SMT REV 5

CONDUIT AND CABLE SCHEDULE STAGE II AND III

CONDUIT DESIGNATION	CIRCUIT No.	FROM	TO	SERVICE	CONDUIT NUMBER OF SETS	CONDUIT SIZE	CABLE (PER CDT.) OR BUSWAY NUMBER & SIZE	CABLE TYPE	REMARKS	CONDUIT DESIGNATION	CIRCUIT No.	FROM	TO	SERVICE	CONDUIT NUMBER OF SETS	CONDUIT SIZE	CABLE (PER CDT.) OR BUSWAY NUMBER & SIZE	CABLE TYPE	REMARKS
MEDIUM VOLTAGE 15KV CABLE (SEE DWG. #E-68, RISER DIAGRAM)										FDR'S - TRANSFER FROM EXIST. SWGR "R" BUS (SEE DWG. #E-84, ONE LINE DIAGRAM)									
PF-BSC	—	EXIST. 15KV SPLICE CABINET	BKR. #HV-B1	13.8KV	1	4"	3-350MCM	EPR	"Y" SPLICE TO EXISTING RISER CABLE	R-4	1-4	SWGR. BUS #1	ATS-75ER	480V	4	3"	3-350MCM	XHHW-2	
PF-BSC TEMP	—	BKR. #HV-B1	EXIST. TR-5	13.8KV	1	4"	3-350MCM	EPR	TEMPORARY FDR.		—	ATS-75ER	SWGR. BUS #EL-75E	480V	4	3"	3-350MCM	XHHW-2	RUN FEEDERS BETWEEN EQUIPMENT
PF-BSC	—	EXIST. 15KV SPLICE CABINET	BKR. #HV-B2	13.8KV	1	4"	3-350MCM	EPR	"Y" SPLICE TO EXISTING RISER CABLE	R-5	2-4	SWGR. BUS #2	MCC-ME75R	480V	3	3 1/2"	3-500MCM	XHHW-2	
PF-BSC TEMP	—	BKR. #HV-B2	EXIST. TR-6	13.8KV	1	4"	3-350MCM	EPR	TEMPORARY FDR.	R-BI	2-6	SWGR. BUS #2	EXIST. P.B. #1	480V	1	2 1/2"	3-#4/0	XHHW-2	
PF-BSC	—	EXIST. 15KV SPLICE CABINET	BKR. #HV-B3	13.8KV	1	4"	3-350MCM	EPR	"Y" SPLICE TO EXISTING RISER CABLE	J-6	1-6	SWGR. BUS #1	PHL. DP-75W	480/277V	2	3 1/2"	4-500MCM	XHHW-2	REMOVE TEMP. FDR. R-7-TEMP INSTALLED IN STAGE I
PF-BSC TEMP	—	BKR. #HV-B3	EXIST. TR-7	13.8KV	1	4"	3-350MCM	EPR	TEMPORARY FDR.	J-4	3-4	SWGR. BUS #3	EXIST. P.B. #16	480V	2	3 1/2"	4-500MCM	XHHW-2	ELB - INSTALL C.T. WIRING TO METER
PF-BSC	—	EXIST. 15KV SPLICE CABINET	BKR. #HV-B4	13.8KV	1	4"	3-350MCM	EPR	"Y" SPLICE TO EXISTING RISER CABLE	R-16	3-1	SWGR. BUS #3	EXIST. P.B. #16	480V	2	3 1/2"	3-500MCM	XHHW-2	ERASCO - INSTALL C.T. WIRING TO METER
PF-BSC TEMP	—	BKR. #HV-B4	EXIST. TR-8	13.8KV	1	4"	3-350MCM	EPR	TEMPORARY FDR.	R-17	4-5	SWGR. BUS #4	EXIST. P.B. #16	480V	3	3 1/2"	3-500MCM	XHHW-2	ERASCO - INSTALL C.T. WIRING TO METER
FDR'S - TRANSFER FROM EXIST. SWGR "L" BUS (SEE DWG. #E-69, ONE LINE DIAGRAM)										FDR'S - TRANSFER FROM EXIST. SWGR BUS "EL" (SEE DWG. #E-84, ONE LINE DIAGRAM)									
L-1	3-5	SWGR. BUS #3	ATS-75EL	480V	5	3 1/2"	3-500MCM	XHHW-2		R-10	EL-1	SWGR. BUS #EL	EXIST. P.B. #1	480V	1	2 1/2"	3-250MCM	XHHW-2	1-#2/0 GND.
	—	ATS-75EL	EUP #EL-B76S	480V	5	3 1/2"	3-500MCM	XHHW-2	VIA P.B. #2, USING EXIST. 3 1/2" C. FROM P.B. #6 TO PHL.	R-11	EL-2	SWGR. BUS #EL	EXIST. P.B. #1	480V	1	3 1/2"	3-500MCM	XHHW-2	1-#1/0 GND.
L-3-TEMP.	4-6	SWGR. BUS #4	EXISTING TRANSF. #TR-L3	480V	2	3 1/2"	3-500MCM	XHHW-2	PROVIDE CABLE LUGS AT SWGR. BREAKER	R-12	EL-3	SWGR. BUS #EL	EXIST. P.B. #1	480V	1	3 1/2"	3-500MCM	XHHW-2	1-#1/0 GND.
L-3	4-1	SWGR. BUS #4	TRANSF. #TR-L3	480V	2	3 1/2"	3-500MCM	XHHW-2	DEAN WITTER - INSTALL C.T. WIRING TO METER	R-13	EL-4	SWGR. BUS #EL	ELEV. DISTRIBUTION PHL. #EL-A7G	480V	2	3"	3-350MCM	XHHW-2	1-#2/0 GND.
L-3	—	CB-L3	EXIST. 1600A BUSWAY	208/120V	1	—	2000A BUSWAY	3# F.N. GND.		EMERG. POWER FDR'S FROM ELEC. CLOSET "C" (SEE DWG. #E-84, ONE LINE DIAGRAM UNLESS OTHERWISE NOTED)									
L-4a	4-2	SWGR. BUS #4	BUSWAY CAP	480/277V	1	—	2000A BUSWAY	3# F.N. GND.		R-2	—	EXIST. POW. CONTR. EPC-75B	ATS-75EL	480V	2	3 1/2"	3-500MCM	XHHW-2	1-#2/0 GND.
L-4b	3-2	SWGR. BUS #3	EXIST. 1600A BUSWAY	480/277V	1	—	2000A BUSWAY	3# F.N. GND.	DEAN WITTER - INSTALL C.T. WIRING TO METER	R-3	—	EXIST. POW. CONTR. EPC-75B	EXIST. P.B. #1	480V	1	2"	3-#3/0	XHHW-2	1-#4 GND.
L-2	4-4	SWGR. BUS #4	MCC-ME75L	480V	3	3 1/2"	3-500MCM	XHHW-2			—	EXIST. P.B. #1	ATS-75ER	480V	1	2"	3-#3/0	XHHW-2	1-#4 GND.
FDR'S - TRANSFER FROM EXIST. SWGR "R" BUS (SEE DWG. #E-69, ONE LINE DIAGRAM)										TEMPORARY 480/277V. BUSWAY (SEE DWG. #E-84, ONE LINE DIAGRAM)									
R-1	2-1	SWGR. BUS #2	TRANSF. #TR-R1	480V	2	3 1/2"	3-500MCM	XHHW-2		T.B.	1-2	SWGR. BUS #3	EXIST. COLLECTOR BUSWAY	480/277V	1	—	4000A BUSWAY	3# F.N. GND.	TEMPORARY BUSWAY
R-1	—	CB-R1	EXIST. 1600A BUSWAY	208/120V	1	—	2000A BUSWAY	3# F.N. GND.											
R-1-TEMP	3-3	SWGR. BUS #4	EXISTING TRANSF. #TR-R1	480V	2	3"	3-500MCM	XHHW-2	PROVIDE CABLE LUGS AT SWGR. BREAKER										
R-1a	1-2	SWGR. BUS #1	BUSWAY CAP	480/277V	1	—	2000A BUSWAY	3# F.N. GND.											
R-2b	2-2	SWGR. BUS #2	EXIST. 1600A BUSWAY	480/277V	1	—	2000A BUSWAY	3# F.N. GND.											
R-3	2-7	SWGR. BUS #2	EXIST. P.B. #1	480V	1	3 1/2"	3-500MCM	XHHW-2											

Sheet 171 of 224



THE PORT AUTHORITY OF NY & NJ

Blair K. Sweeney
ENGINEERING PROGRAM MANAGER
WORLD TRADE CENTER
For M. Sweeney
CHIEF ELECTRICAL ENGINEER

Engineering Department
Design Divisions

The World Trade Center
Electrical/HVAC
Upgrade Program

TOWER ONE AND TWO
LOW VOLTAGE
SUBSTATIONS
CONSTRUCTION AND
INSTALLATION

ELECTRICAL

SUBSTATION SS-75E
STAGE II AND III
CONDUIT AND CABLE
SCHEDULE

No. Date Revision Approved

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

LEAHY/FISCHER
Designed by LEAHY
Drawn by A.C.
Checked by

Date 5-1-95 Scale NONE

Contract Number WTC 802.071
Drawing Number E-85

- 1 - REMOVE EXIST. & INSTALL COPPER CABLE LUGS
 - 2 - SPLICE TO EXIST. AL. CABLE
 - 3 - CONNECT TO EXIST. AL. BUSWAY
- FOR EXIST. COT. & WIRE SEE DWG #E-111

FILE NAME : 80271E05 APR. 10, 1995